

## A SAMPLE CHAMBER FOR USE IN ANALYTICAL INSTRUMENTATION

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### ABSTRACT OF THE INVENTION

10 A tube or chamber optimized for applications as part of an optical system includes an optically transmissive elongate tubular body having an elongate tubular body wall including an interior surface and an exterior surface. The interior surface of the tubular body wall defines an elongate bore for containment or transport of a sample material to be analyzed. The body wall further includes a first portion, through which incident radiation passes, having a non-uniform thickness about the sample passageway so as to optimize optical coupling therethrough.